

Quintile of CRP Level					
	1	2	3	4	5
	0.49 mg/dL	>0.49-1.08 mg/dL	>1.08-2.09 mg/dL	>2.09-4.19 mg/dL	>4.19 mg/dL
Relative Risk	1.0	1.8	2.3	3.2	4.5
Number of women	6000	6000	6000	6000	6000

8. Based on the relative risk data above, one can conclude:
- There is no risk of heart attack/stroke for women with CRP levels in the first quintile.
 - Decreasing CRP level appears to increase the risk of heart attack/stroke.
 - Increasing CRP level appears to increase the risk of heart attack/stroke.
 - There appears to be no association between CRP levels and heart attack/stroke.
9. In 2020, the population of Illinois is 12.63 million. Total cases of COVID-19 is 900,370. Using 100,000 as a multiplier, what is the period prevalence rate? Round to the nearest whole number.

$$\frac{900,370}{12,630,000} \times 100,000 = 7,129 \text{ per } 100,000 \text{ population}$$

10. In 2020, the population of Illinois is 12.63 million. The total deaths from COVID-19 is 128,000. Using 100,000 as a multiplier, what is the cause-specific mortality rate? Round to the nearest whole number.

$$\frac{128,000}{12,630,000} \times 100,000 = 1,013 \text{ cause-specific mortality rate per } 100,000 \text{ population}$$

EPIDEMIOLOGY EXERCISES
INFANT MORTALITY, CHICAGO COMMUNITY AREAS

TABLE 1

	COMMUNITY AREA	# of LIVE BIRTHS	DEATHS UNDER ONE YEAR	
			#	RATE PER 1000 BIRTHS
				12.3
01.	Rogers Park	1,054	13	5.2
02.	West Ridge	966	5	19.4
03.	Uptown	1,340	26	17.1
04.	Lincoln Square	760	13	11.5
05.	North Center	610	7	24.9
27.	East Garfield Park	763	19	25.4
28.	Near West Park	1,338	34	27.1
36.	Oakland	295	8	19.9
39.	Grand Boulevard	1,209	24	23.1
40.	Washington Park	735	17	20.7
68.	Englewood	1,303	27	33.5
73.	Washington Heights	507	17	
	CHICAGO	55,216	914	16.6
	UNITED STATES	--	--	12.5

A. Fill in the blank columns in Table 1 using the formula to calculate infant mortality rate. Use 1,000 as your multiplier and round the answer to the nearest tenth.

B. Compare the infant mortality rate you calculated for Lincoln Square with that of East Garfield Park. Are they the same or different?

The infant mortality rate for East Garfield is higher than Lincoln Square

C. What general trends, if any, are apparent from these data?

The infant mortality rate is higher in the suburbs of Chicago.

D. Compare the infant mortality rate of the City of Chicago with that of the United States. Are the rates the same or different? What factors may account between Chicago and the United States affect these rates?

The infant mortality rate is higher in Chicago compared to the United States. Chicago may have areas of high poverty.